BRUHAT BANGALORE MAHANAGARA PALIKE

Office of the Executive Engineer, Rajarajeshwari Nagara Division, RR Nagara Zone, B.B.M.P., Bangalore.

Tender Notification No.RRND/EE/Tend/13/2019-20, Date: 21.01.2020

Indet No: BBMP/2019-20/RD/WORK_INDENT40177

SCHEDULE -B

Name of Work: Comprhensive Development of Roads & Drains in Muthyalanagara, LC-4A, Mohankumar Nagar, Sundara Nagar and Surrounding areas in W No.17 under PACKAGE- 2019-20 RRN-DIV-(09)

Sl.No	Qty	Description of work	Unit	In Figures (Rs.)	In Words (Rs.)
1	2	3	4	5	6
1	13265.28	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)Complete as per the direction of Engineer in charge with all lead and lift	Sqm	112.00	Rupees One Hundred Twelve Only
2	12286.14	Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Cum	238.00	Rupees Two Hundred Thirty Eight Only
3	302.11	Plain cement concrete 1:3:6 mix with crushed stone aggregate 40 m nominal size mechanically mixed, placed in foundation and compacted by vibration including curing complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	Sqm	4524.00	Rupees Four Thousand Five Hundred Twenty Four Only
4	637.09	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specifications.Wall & bottom thickness 15cm Complete as per the direction of Engineer in charge with all lead and lift	Cum	7141.00	Rupees Seven Thousand One Hundred Forty One Only
5	40.46	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. Complete as per the direction of Engineer in charge with all lead and lift	tonne	73050.00	Rupees Seventy Three Thousand Fifty Only

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6	10331.60	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton per sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications.-do with solid concrete blocks of size 400*200*200 mm Complete as per the direction of Engineer in charge with all lead and lift	Sqm	976.00	Rupees Nine Hundred Seventy Six Only
7	31676.80	Providing ruled pointing to coursed stone masonry with cement mortar, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, HOM curing complete as per specifications.– do – cement mortar 1:3 Complete as per the direction of Engineer in charge with all lead and lift	Sqm	152.00	Rupees One Hundred Fifty Two Only
8	1187.88	Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in For Coping , including cost of all materials, labour, HOM curing omplete as per specifications. SComplete as per the direction of Engineer in charge with all lead and lift	Cum	5656.00	Rupees Five Thousand Six Hundred Fifty Six Only
9	7085.92	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete.- do - 10 cms thick Complete as per the direction of Engineer in charge with all lead and lift	Sqm	976.00	Rupees Nine Hundred Seventy Six Only
10	7086.00	Providing one line dressing to granite stone slab / granite stone masonry as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	960.00	Rupees Nine Hundred Sixty Only
11	33068.00	Providing chamfering edges to stone slab 2.5 cms. Wide as per specifications. (only chamfered length shall be recorded) Complete as per the direction of Engineer in charge with all lead and lift	Sqm	62.00	Rupees Sixty Two Only
12	219.20	Providing and Fixing RCC Precast Cover Slab of 250 mm Thick for Drains in Cement Concrete M-20 using graded granite Jelly of 20 mm and down size with steel Reinforcement, including form work lift charges, curing and concrete finished surface on both sides etc., as per drawing and the direction of Enginner-in-charge.Data Rate	Sqm	5476.80	Rupees Five Thousand Four Hundred Seventy Six And Paise Eighty Only
13	14047.80	Removing and resetting of kerb stones.Complete as per the direction of Engineer in charge with all lead and lift	Sqm	106.00	Rupees One Hundred Six Only
14	20700.00	Providing and fixing pre cast solid concrete kerb stones of size 450x150x500 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., Complete as per the direction of Engineer in charge with all lead and lift	nos	460.00	Rupees Four Hundred Sixty Only

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15	9345.20	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	86.00	Rupees Eighty Six Only
16	2316.14	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Cum	85.00	Rupees Eighty Five Only
17	2216.00	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Cum	2000.00	Rupees Two Thousand Only
18	3397.56	Providing, laying, spreading and compacting crushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Cum	2000.00	Rupees Two Thousand Only
19	14772.01	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM ,including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per Specifications. MORTH Specification No. 502 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.	Sqm	30.00	Rupees Thirty Only
20	56523.24	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	5.00	Rupees Five Only
21	127818.49	Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	13.00	Rupees Thirteen Only

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22	3564.76	Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications. Clause 505 of morth V revision using 40/60 TPH capacity H.M.P. with mechanical paver Gr-II (50mm to 75mm) with 4.5% VG-30 Bitumen. Complete as per the direction of Engineer in charge with all lead and lift	Cum	7010.00	Rupees Seven Thousand Ten Only
23	2851.81	Providing and laying bituminous concrete using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision. - using40/60 TPH capacity H.M.P. with Mechanical Paver Gr-II (30 mm to 40 mm) with 5.4% VG-30 Bitumen Complete as per the direction of Engineer in charge with all lead and lift	Cum	8010.00	Rupees Eight Thousand Ten Only
24	5321.62	Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. Complete as per the direction of Engineer in charge with all lead and lift	Sqm	463.00	Rupees Four Hundred Sixty Three Only
25	9460.00	Road markers / Road stud Providing and fixing of road stud 100x 100 mm, diecast in aluminium, resistant to corrosive effect of salt and grit, fitted with lense reflectors, installed in concrete or asphaltic surface by drilling hole 30 mm upto a depth of 60 mm and bedded in a suitable bituminous grout or epoxy mortar, all as per BS: 873 part 4:1973 complete as per specifications Complete as per the direction of Engineer in charge with all lead and lift	nos	361.00	Rupees Three Hundred Sixty One Only

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